

EXHIBIT F

Name: Roger Edwin McLendon, M.D.

Prepared: February 5, 2015

Primary Academic Appointment: Department of Pathology of the Duke University School of Medicine and Duke Hospital of the Duke University Health System

Present Academic Rank and Title: Professor of Pathology
Director of Surgical Pathology
Chief, Section of Neuropathology

Dates and Rank of Duke Faculty Appointments:

Professor: 02/01/2001

Associate Professor: 05/01/1998 - 01/31/2001

Assistant Professor: 01/01/1992 - 04/30/1998

Specialty Certification and Dates:

Anatomic Pathology, American Board of Pathology, 1987

Neuropathology, American Board of Pathology, 1987

Licensure: North Carolina, #27950; Georgia #29500

Date of Birth: [REDACTED] **Place:** [REDACTED] **Citizen of:** USA

Education:

<u>Place</u>	<u>Date</u>	<u>Degree</u>
College	Oxford College of Emory University	1977
	Emory University	1979
Medical School	Medical College of Georgia	1982

Scholarly Societies: Phi Beta Kappa

Professional Training and Academic Career:

1983	Resident in Surgery, Medical Center of Central Georgia, Macon, GA
1983-1986	Resident in Pathology, Duke University Medical Center, Durham, NC
1984-1987	Fellow in Neuropathology, Duke University Medical Center, Durham, NC
1987-1988	Assistant Clinical Professor of Pathology, Mercer University School of Medicine
1988-1991	Assistant Professor of Pathology, Part-time Faculty, Mercer University School of Medicine
1987-1991	Pathologist, Tift General Hospital
1992-1998	Assistant Professor of Pathology, Duke University Medical Center

1994-1995	Scientific Director, Immunopathology Laboratory
1995-present	Scientific Director, Neuropathology Laboratory
1995-present	Chief, Section of Neuropathology, Duke University Medical Center
1998-2001	Associate Professor of Pathology, Duke University Medical Center
2001-present	Professor of Pathology, Duke University Medical Center
2001 – present	Director of Duke Brain Tumor Center/Pediatric Brain Tumor Foundation Biorepository
2000-2012	Director of Anatomic Pathology Services, Duke University Medical Center
2009 -2012	Chief of Surgical Pathology
2012-present	Director of Division of Surgical Pathology
2013–present	Departmental Executive Committee, member
2015 – present	Medical Director of Image Cytometry Laboratory

Institutional Committees:

1992-1998	Duke University School of Medicine Admissions Committee (Executive sub-committee, 1995-1998)
1995-1996	Duke University School of Medicine Curriculum Committee Advisory Subcommittee for Pathology
1996	Basic Science Advisory Committee for the Pathology Core Course (PTH 200)
2000-2002	Duke University Academic Council
2002	Institutional Review Board – Principal Investigators Advisory Board
2003-present	Private Diagnostic Clinic Retirement Committee
2012-present	Research Advisory Committee for Maestro Care Research implementation

National Committees:

1998-present	Member, American Board of Pathology Test Development and Advisory Committee for Neuropathology
1998	Molecular Genetics Testing Expert Panelist. General Recommendations for Quality Assurance Programs for Laboratory Molecular Genetic Testing, prepared for Centers for Disease Control and Prevention, Public Health Practice Program Office, Division of Laboratory Systems, Atlanta, GA; Laurina O. Williams, Ph.D. Project Officer
2000-2005	American Association of Neuropathology Professional Affairs Committee
2004-2009	American Association of Neuropathology Board of Councilors
2002-2004	National Coordinating Council for Cancer Surveillance. Brain Tumor Working Group.
2003-2012	Pediatric Brain Tumor Consortium, Chair of Neuropathology Committee
2013	Pediatric Brain Tumor Consortium Neuropathology Committee member
2004-2007	Commission on Cancer: Brain/CNS Disease Site Team
2004-2010	College of American Pathologists: Neuropathology Education Committee
2011-present	College of American Pathologists: House of Delegates
2012 – present	College of American Pathologists: Economic Affairs Committee
2012 - 2013	College of American Pathologists: EAC Regulatory Compliance Subcommittee
2014-present	College of American Pathologists: EAC Payment Policy Subcommittee

2013-present	College of American Pathologists: Neuropathology Education Committee (reappointment)
2013	College of American Pathologists: Cancer Biomarker Reporting Committee: CNS panel
2013	Centers for Medicare and Medicaid Services: Neurology Clinical Working Group. CMS Episode Grouper Project sponsored by American Medical Association-convened Physician Consortium for Performance Improvement® (AMA-PCPI®) and the American Board of Medical Specialties Research and Education Foundation (ABMS REF) joining with Brandeis University, the Health Care Incentives Improvement Institute, Inc. (HCI3), IPRO (the Medicare Quality Improvement Organization for New York State), and Booz Allen Hamilton.
2014	College of American Pathologists: Neurological Cancer Protocol Review Panel, member

International Committees:

1999	World Health Organization Classification of Tumors of the Nervous System; prepared by the Preuss Foundation Conference on Pathology and Genetics of Tumours of the Nervous System; International Agency for Research on Cancer, Lyon, France, July 24-27, 1999.
2006	World Health Organization Classification of Tumors of the Nervous System Editorial and Consensus Conference held at the German Cancer Research Center (DKFX), Heidelberg, Germany, November 17-18, 2006. Chaired Committee on Ependymal Tumors and Committee on CNS Primitive Neuroectodermal Tumors.
2014	“WHO’s next?”: A meeting to help guide the next steps in brain tumor classification and grading, Amsterdam, May 1-3, 2014
2015	World Health Organization Classification of Tumors of the Nervous System Editorial and Consensus Conference held at the German Cancer Research Center (DKFX), Heidelberg, Germany. June, 2015 (invitation accepted)

Peer Review Experience:

Editorial Board:

2003-present	Journal of Neuropathology and Experimental Neurology
2006-present	Neuropathology and Applied Neurobiology
2014-present	Archives of Pathology and Laboratory Medicine, Sectional Editor
1992-2006	Clinical Neuropathology
2000-2013	Neurooncology

Grant External Reviewer:

2013:	Oak Ridge Associated Universities ad hoc review
2013:	Burroughs Wellcome Trust. Sir Henry Dale Fellowship Grant ad hoc reviewer

Reviewer for:

Acta Neurochirurgica
Acta Neuropathologica
American Journal of Pathology
Brain Pathology
British Journal of Cancer
Cancer
Cancer Research
Clinical Cancer Research
Clinical Neuropathology
Journal of Histochemistry and Cytochemistry
Journal of Neuropathology and Experimental Neurology
Journal of Neurosurgery
Modern Pathology
Neurooncology
Neuropathology
Neuropathology and Applied Neurobiology

Scientific Advisory Board

2015: Genetron Health Holding, Ltd. South Tower 2327, Beijing Kerry Center,
Guanghua Road 1, Chaoyang District, Beijing, China

Teaching Responsibilities Including Continuing Education:

1992-present: Lecturer, PATH 200. Duke University School of Medicine on various topics including "Reaction to Injury and Trauma", "Cerebrovascular Disease", and "Tumors of the Nervous System".
1992-2006: Laboratory Instructor, PATH 200, Duke University School of Medicine.
1992-present: Neurology/Neurosurgery Grand Rounds; responsible for Neuropathology presentations.
1992-2006: Laboratory Demonstrations in "Tumors of the Central Nervous System" and in "CNS Trauma", PATH 200, Duke University School of Medicine.
1994-2006: Moderator; Topics in Surgical Pathology (Neuropathology), Department of Pathology, Duke Medical Center. Monthly presentations by resident in Neuropathology.
1988-2000: Invited Lecturer, Mercer University School of Medicine, Macon, Georgia. Series of 3 to 4 lectures yearly in Neuropathology topics to first year medical students.
June 12, 1993: Co-Chairman, "Anatomy and Cellular Biology" Poster Discussion Session, Annual Meeting of the American Association of Neuropathologist, Salt Lake City, UT.

- Sept. 21, 1994: Co-Chairman, "Medulloblastoma/PNET/Neuronal Tumors" Poster Discussion Session, XIIth International Congress of Neuropathology, Toronto, Canada.
- June 9, 1995: Co-Chairman, Poster Discussion Session, Annual Meeting of the American Association of Neuropathologists, San Antonio, TX.
- June 14, 1996: Co-Chairman, Poster Discussion Session, Annual Meeting of the American Association of Neuropathologists, Vancouver, British Columbia.
- April 1-13, 1997: Delegation Leader, Citizen Ambassador Program's Neuropathology Delegation to Republic of South Africa. Conduct teaching rounds at MEDUNSA Hospital, Pretoria; Baragwanath Hospital, Soweto; University of Witwatersrand Hospital, Johannesburg; Groote Schuur Hospital, University of Cape Town, Cape Town; and Tygerberg Hospital, University of Stellenbosch, Cape Town.
- June 18, 1999: Chair, Poster Discussion Session, Annual Meeting of the American Association of Neuropathologists, Portland, Oregon
- Oct. 13, 2004: Chair, Proffered paper, Neuropathology Session. International Academy of Pathology, Brisbane, Australia.
- June 18, 2005: Neuropathology Specialty Review Session. Hong Kong Academy of Pathology, Hong Kong, People's Republic of China.
- June 20, 2005: Grand Rounds: 301 Peoples Liberation Army Hospital, Beijing, People's Republic of China.
- June 27, 2005: Towards a Molecular Grading System of Gliomas. Western Australia Research Centre, Perth Australia.
- July 5, 2005: Plenary Session: Neuronal Glial Tumors. Federation of South African Societies of Pathology, Pretoria, Republic of South Africa.
- Dec. 4-8, 2006: Invited lecturer in Neuropathology. American University of the Caribbean, St. Marteen, N.V.
- Nov. 13, 2007: Surgical Pathology case conference. University of Pittsburgh Department of Pathology. November 13, 2007.
- June 9, 2008: Glioma Stem Cells. 17th International Brain Tumor Conference. Hakodate, Japan.
- Sept. 29, 2008: Surgical Pathology case conference. University of Oklahoma Department of Pathology, Oklahoma City, OK

- May 22, 2010: Chaired session on Pathology of Brain Tumors. 18th International Conference on Brain Tumors, Travemunde, Germany.
- Nov. 4, 2011: Neuro-oncology Research Presentation. Saba University School of Medicine. Saba, Dutch Caribbean..
- April 23, 2012: Neuropathology Interesting Case Conference. New York University Department of Pathology. New York, New York.
- May 4, 2013: Invited lecturer, Neuro-oncology Tumor Board. Brigham and Women's Hospital, Boston, MA
- June 17, 2013: Neuropathology Teaching Rounds. Medical College of Georgia, Augusta, Georgia
- Sept.27, 2013: Brain Tumor Interesting Case Conference. Advanced Course in Neuropathology II. Association of Directors of Pathology of China. Prince of Wales Hospital, Shatin, Hong Kong.
- October 5, 2013: Invited Neuropathology speaker. Virginia Society of Pathologists, Richmond Virginia
- August 26, 2014: Diagnostic Issues in Adult and Childhood Brain Tumors. Assembly of the Asia Pacific International Academy of Pathology, Colombo, Sri Lanka.
- October 7, 2014: Biomarkers in Adult Astrocytomas. International Academy of Pathology. Bangkok, Thailand. October 7, 2014

Neuropathology Trainees

Charlene Chu	7/01/1995 - 6/30/1998
Mark Matthews	7/01/1996 - 6/30/1998
Thomas Cummings	7/01/1997-6/30/2001
Russ Alexander	7/1/2000 – 6/30/2004
Ryan Mott	7/1/2002 – 6/30/2006

Staff Appointments

July 1, 1987 – December 1991	Tift General Medical Center, Tifton, GA, Clinical Staff, Pathology
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January 1, 1992 – present	Duke Hospital, Durham, NC Clinical Staff, Pathology
September 1, 1993 – present	Durham VA Medical Center, Durham, NC Consulting Staff, Pathology
March 1, 2003 – present	Durham Regional Hospital, Durham, NC Consulting Staff, Pathology
June 19, 2003 – present	Duke Raleigh Hospital, Raleigh, NC Consulting Staff, Pathology

PUBLICATIONS

Full-Length Papers:

1. Sickles, D.W., McLendon, R.E., and Rosenquist, T.H.: Alternative method for quantitative enzyme histochemistry of muscle fibers: application of photographic densitometry combined with atomic absorption spectrophotometry. *Histochemistry* 73:577-588, 1982.
2. Sickles, D.W., and McLendon, R.E.: Metabolic variation among rat lumbosacral motoneurons. *Histochemistry* 79:205-217, 1983.
3. McLendon, R.E., Robinson, J.S., Jr., Chambers, D.B., Gruffman, S., and Burger, P.C.: The glioblastoma multiforme in Georgia: 1977-1981. *Cancer* 56:894-897, 1985.
4. Foster, W.L., Jr., Roberts, L., Jr., McLendon, R.E., and Hill, R.C.: Localized peribronchial thickening: a CT sign of occult bronchogenic carcinoma. *Am. J. Roentgenol.* 144:906-908, 1985.
5. McLendon, R.E., Roggli, V.L., Foster, W.L., Jr., and Becsey, D.: Carcinoma of the lung with osseous stromal metaplasia. *Archiv. Pathol. Lab. Med.* 109:1051-1053, 1985.
6. McLendon, R.E., Crain, B.J., Oakes, W.J., and Burger, P.C.: Polygyria in the Chiari II (Arnold-Chiari) malformation. *Clin. Neuropathol.* 4:200-205, 1985.
7. Fulkerson, W.J., McLendon, R.E., and Prosnitz, L.R.: Adult respiratory distress syndrome following limited thoracic radiotherapy. *Cancer* 57:1941-1946, 1986.
8. McLendon, R.E., Burger, P.C., Pegram, C.N., Eng, L.F., and Bigner, D.D.: The immunohistochemical application of three anti-GFAP monoclonal antibodies to formalin-fixed, paraffin-embedded normal and neoplastic brain tumors. *J. Neuropathol. Exp. Neurol.* 45:692-703, 1986.
9. Woodruff, W.W., Yeates, A.E., and McLendon, R.E.: Perineural tumor extension to the cavernous sinus from superficial facial carcinoma: CT manifestations. *Radiology* 161:395-399, 1986.
10. Wikstrand, C.J., McLendon, R.E., Bullard, D.E., Fredman, P., Svennerholm, L., and Bigner, D.D.: Production and characterization of two human glioma xenograft-localizing monoclonal antibodies (Mabs). *Cancer Res.* 46:5933-5940, 1986.
11. Burger, P.C., Rawlings, C.E., Cox, E.B., McLendon, R.E., Schold, S.C., and Bullard D.E.: Clinicopathological correlations in the oligodendrogloma. *Cancer* 59:1345-1352, 1987.
12. McLendon, R.E., and Burger, P.C.: The primitive neuroectodermal tumor: a cautionary view. *J. Pediatr. Neurosci.* 3:1-8, 1987.
13. Wikstrand, C.J., McLendon, R.E., Carrel, S., Kemshead, J.T., Mach, J-P, Coakham, H.B., de Tribolet, N., Bullard, D.E., Zalutsky, M.R., and Bigner, D.D.: Comparative localization of

- glioma-reactive monoclonal antibodies in vivo in an athymic mouse human glioma xenograft model. *J. Neuroimmunol.* 15:37-56, 1987.
14. Woodruff, W.W., Jr., Djang, W.T., McLendon, R.E., Heinz, E.R., and Voorhees, D.: High field MR imaging of intracerebral malignant melanoma. *Radiology* 165:209-213, 1988.
 15. McLendon, R.E., Oakes, W.J., Heinz, E.R., Yeates, A.E., and Burger, P.C.: Adipose tissue in the filum terminale: a CT finding associated with tethering of the spinal cord? *Neurosurgery* 22:873-876, 1988.
 16. Wikstrand, C.J., Longee, D.C., McLendon, R.E., Fuller, G.N., Friedman, H.S., Fredman, P., Svennerholm, L., and Bigner, D.D.: Lactotetraose series ganglioside 3',6'-isoLD1 in tumors of central nervous and other systems in vitro and in vivo. *Cancer Res.* 53:120-126, 1993.
 17. Furie, D.M., Felsberg, G.J., Tien, R.D. Friedman, H.S., Fuchs, H., and McLendon, R.: MR imaging of gangliocytoma of the cerebellum and spinal cord. *J. Comput. Assist. Tomogr.* 17:488-491, 1993.
 18. Schuster, J.M., Friedman, H.S., Archer, G.E., Fuchs, H.E., McLendon, R.E., Colvin, O.M., and Bigner, D.D.: Intraarterial therapy of human glioma xenografts in athymic rats using 4-hydroperoxycyclophosphamide. *Cancer Res.* 53:2338-2343, 1993.
 19. Moghrabi, A., Friedman, H.S., McLendon, R., Hockenberger, B., Tien, R., Halperin, E.C., and Oakes, W.J.: Arteriovenous malformation following radiotherapy mimicking recurrent medulloblastoma. *Med. Pediatr. Oncol.* 22:140-143, 1994.
 20. Rasheed, B.K.A., McLendon, R.E., Herndon, J.E., Friedman, H.S., Friedman, A.H., Bigner, D.D., and Bigner, S.H.: Alterations of the TP53 gene in human gliomas. *Cancer Res.* 54:1324-1330, 1994.
 21. Wikstrand, C.J., Friedman, P., McLendon, R.E., Svennerholm, L., and Bigner, D.D.: Altered expression of ganglioside phenotypes of human gliomas in vivo and in vitro. *Mol. Chem. Neuropathol.* 21:129-138, 1994.
 22. Friedman, H.S., Archer, G.E., McLendon, R.E., Schuster, J.M., Colvin, O.M., Guaspari, A., Blum, R., Savina, P.A., Fuchs, H., and Bigner, D.D.: Intrathecal melphalan therapy of human neoplastic meningitis in athymic nude rats. *Cancer Res.* 54:4710-4714, 1994.
 23. Osumi, A.K., McLendon, R.E., Tien, R.D., Friedman, H.S., Graham, M., Hockenberger, B., Halperin, E.C., and Oakes, W.J.: Well differentiated astrocytoma occurring nine years after radiation therapy for medulloblastoma. *Clin. Neuropathol.* 13:281-285, 1994.
 24. Zalutsky, M.R., McLendon, R., Garg, P.K., Archer, G.E., Schuster, J.M., and Bigner, D.D.: Radioimmunotherapy of neoplastic meningitis in rats using an α -particle-emitting immunoconjugate. *Cancer Res.* 54:4719-4725, 1994.

25. Provenzale, J., Weber, A., Klintworth, G.K., and McLendon, R.E.: Bilateral retinoblastoma with coexistent pineoblastoma ("trilateral retinoblastoma"): radiologic-pathologic correlation. *Am. J. Neuroradiol.* 16:157-165, 1995.
26. Lee, V.S., Provenzale, J.M., Fuchs, H.E., Osumi, A., and McLendon, R.E.: Post-traumatic epidermoid cyst: CT appearance. A case report. *J. Comput. Assist. Tomogr.* 19(1):153-155, 1995.
27. Hinton, J.L., Jr., Warejcka, D.J., Mei, Y., McLendon, R.E., Laurencin, C., Lucas, P.A., and Robinson, J.S., Jr.: Inhibition of epidural scar formation following lumbar laminectomy in the rat. *Spine* 20: 564-570, 1995.
28. Hitchcock, M.G., Ellington, K.S., Friedman, A.H., Provenzale, J.M., and McLendon, R.E.: Shadow cells in an intracranial dermoid cyst: a case report. *Archiv. Pathol. Lab. Med.*, 119: 371-373, 1995.
29. Foltz, R.M., McLendon, R.E., Friedman, H.S., Dodge, R.K., Bigner, D.D., and Dewhirst, M.W.: A pial window model for intracranial study of human glioma microvascular function. *Neurosurg.* 36: 976-985, 1995.
30. Pastan, I.H., Archer, G.E., McLendon, R.E., Friedman, H.S., Fuchs, H.E., Wang, Q-C., Pai, L.H., Herndon, J., and Bigner, D.D.: Intrathecal administration of single-chain immunotoxin, LMB-7 (B3(Fv)-PE38), produces cures of carcinomatous meningitis in a rat model. *PNAS* 92: 2765-2769, 1995.
31. Rasheed, B.K.A., McLendon, R.E., Friedman, H.S., Friedman, A.H., Fuchs, H.E., Bigner, D.D., and Bigner, S.H.: Chromosome 10 deletion mapping in human gliomas: a common deletion region in 10q25. *Oncogene* 10:2243-2246, 1995.
32. Brown, M.T., McLendon, R.E., and Gockerman, J.P.: Primary central nervous system lymphoma with systemic metastasis: case report and review of the literature. *J. Neurooncol.* 23:207-221, 1995.
33. Wikstrand, C.J., Hale, L.P., Batra, S.K., Hill, M.L., Humphrey, P.A., Kurpad, S.N., McLendon, R.E., Moscatello, E., Pegram, C.N., Reist, C.J., Traweek, S.T., Wong, A.J., Zalutsky, M.R., and Bigner, D.D.: Monoclonal antibodies against EGFRvIII are tumor specific and react with breast and lung carcinomas and malignant gliomas. *Cancer Res.* 55:3140-3148, 1995.
34. Bigner, D.D., Brown, M., Coleman, R.E., Friedman, A.H., Friedman, H.S., McLendon, R.E., Bigner, S.H., Zhao, X.-G., Wikstrand, C.J., Pegram, C.N., Kerby, T., and Zalutsky, M.R.: Phase I studies of treatment of malignant gliomas and neoplastic meningitis with 131I-radiolabeled monoclonal antibodies anti-tenascin 81C6 and anti-chondroitin proteoglycan sulfate Me1-14 F(ab')2 - A preliminary report. *J. Neurooncol.* 24:109-122, 1995.
35. Batra, S.K., McLendon, R.E., Koo, J.S., Castelino-Prabhu, S., Fuchs, H.E., Krischer, J.P., Friedman, H.S., Bigner, D.D., and Bigner, S.H.: Prognostic implications of chromosome 17p deletions in human medulloblastomas. *J. Neurooncol.* 24:39-45, 1995.

36. Kurpad, S.N., Friedman, H.S., Archer, G.E., McLendon, R.E., Petros, W.M., Fuchs, H.E., Guaspari, A., and Bigner,D.D.: Intrarterial administration of melphalan for treatment of intracranial human glioma xenografts in athymic rats. *Cancer Res.* 55:3803-3809, 1995.
37. Kurpad, S.N., Zhao, X.-G., Wikstrand, C.J., Batra, S.K., McLendon, R.E., and Bigner, D.D.: Tumor antigens in astrocytic gliomas. *Glia* 15:244-256, 1995.
38. Felsberg, G.J., Tien, R.D., and McLendon, R.E.: Frontoethmoidal giant cell reparative granuloma. *Am. J. Neuroradiol.* 16:1551-1554, 1995.
39. Bigner, D.D., Archer, G.E., McLendon, R.E., Friedman, H.S., Fuchs, H.E., Pai, L.H., Herndon, J.E., II, and Pastan. I.H.: Efficacy of compartmental administration of immunotoxin LMB-1 (B3-LysPE38) in a rat model of carcinomatous meningitis. *Clin. Cancer Res.* 1:1545-1555, 1995.
40. Lirng, J.F., Enterline, D.S., Tien, R.D., Fuchs, H., Friedman, H.S., Ellington, K.S., and McLendon, R.E.: MRI of papillary meningiomas in children. *Pediatr. Radiol.* 25(S)1:9-13, 1995.
41. Blaeker, H., Rasheed, B.K.A., McLendon, R., Friedman, H.S., Batra, S.K., Fuchs, H.E., and Bigner, S.H.: Microsatellite analysis of childhood brain tumors. *Genes Chromosom. Cancer* 15:54-63, 1996.
42. McLendon, R.E., Archer, G.E., Garg, P.K., Bigner, D.D., and Zalutsky, M.R.: Radiotoxicity of systemically administered [211At]astatide in B6C3F1 and BALB/c (nu/nu) mice: a long term survival study with histologic analysis. *Int. J. Rad. Oncol. Biol. Phys.* 35:69-80, 1996.
43. McCowage, G., Tien, R., McLendon, R., Feisberg, G., Fuchs, H., Graham, M.L., Kurtzberg, J., Moghrabi, A., Ferrell, L., Kerby, T., Duncan-Brown, M., Stewart, E., Robertson, P.L., Colvin, O.M., Golembe, B., Bigner, D.D., and Friedman, H.S.: Successful treatment of childhood pilocytic astrocytomas metastatic to the leptomeninges with high-dose cyclophosphamide. *Med. Pediatr. Oncol.* 27:32-39, 1996.
44. McLendon, R.E., Fung, K.-M., Bentley, R.C., Rasheed, B.K.A., Trojanowski, J.Q., Bigner, S.H., Bigner, D.D., and Friedman, H.S.: Production and characterization of two ependymoma xenografts. *J. Neuropathol. Exp. Neurol.* 55:540-548, 1996.
45. Brown, M.T., Coleman, R.E., Friedman, A.H., Friedman, H.S., McLendon, R.E., Reiman, R., Felsberg, G.J., Tien, R.D., Bigner, S.H., Zalutsky, M.R., Zhao, X.G., Wikstrand, C.J., Pegram, C.N., Herndon, II, J.E., Vick, N.A., Paleologos, N., Fredericks, R.K., Schold, Jr., S.C., and Bigner, D.D.: Intrathecal 131I-labeled antitenascin monoclonal antibody 81C6 treatment of patients with leptomeningeal neoplasms or primary brain tumor resection cavities with subarachnoid communication: Phase I trial results. *Clin. Cancer Res.* 2:963-972, 1996.
46. Towfighi, J., Salam, M.M., McLendon, R.E., Powers, S., and Page, R.B.: Ganglion cell-containing tumors of the pituitary gland. *Arch. Pathol. Lab. Med.* 120:369-377, 1996.

47. Ashley, D.M., Longee, D., Tien, R., Fuchs, H., Graham, M.L., Kurtzberg, J., Casey, J., Olson, J., Meier, L., Ferrell, L., Kerby, T., Duncan-Brown, M., Stewart, E., Colvin, O.M., Pipas, J.M., McCowage, G., McLendon, R., Bigner, D.D., and Friedman, H.S.: Treatment of patients with pineoblastoma with high dose cyclophosphamide. *Med. Pediatr. Oncol.* 26:387-392, 1996.
48. Provenzale, J.M., and McLendon, R.E.: Spinal angiomyolipomas: MR features. *Am. J. Neuroradiol.* 17:713-719, 1996.
49. Felsberg, G.J., Glass, J.P., Tien, R.D., and McLendon, R.: Gliomatosis cerebri presenting with optic nerve involvement: MR appearance: a case report. *Neuroradiol.* 38:774-777, 1996.
50. Kurpad, S.N., Dolan, M.E., McLendon, R.E., Archer, G.E., Moschel, R.C., Pegg, A.E., Bigner, D.D., and Friedman, H.S.: Intraarterial O6-benzylguanine enables the specific therapy of nitrosourea-resistant intracranial human glioma xenografts in athymic rats with 1,3-bis(2-chloroethyl)-1-nitrosourea. *Cancer Chemother. Pharmacol.* 39:307-316, 1997.
51. Ashraf, R., Bentley, R.C., Awan, A.N., McLendon, R.E., and Ragozzino, M.W.: Implantation metastasis of primary malignant rhabdoid tumor of the brain in an adult: one case report. *Med. Pediatr. Oncol.* 28:223-227, 1997.
52. Moghrabi, A., Tien, R., Fuchs, H., Longee, D., McLendon, R., and Friedman, H.S.: False positive MRI images in the follow-up of patients with brain tumors. *Med. Pediatr. Oncol.* 28:127-131, 1997.
53. Kallmes, D.F., Provenzale, J.M., Cloft, H.J., McClendon, R.E. (1997) Typical and atypical MR imaging features of intracranial epidermoid tumors. *AJR Am J Roentgenol.* 169: 883-7.
54. Provenzale, J.M., Schaefer, P., Traweek, S.T., Ferry, J., Moore, J.O., Friedman, A.H., and McLendon, R.E.: Craniocerebral plasmacytoma - MR features. *Am. J. Neuroradiol.* 18:389-392, 1997.
55. McLendon, R.E., Bentley, R.C., Parisi, J.E., Tien, R.D., Harrison, J.C., Tarbell, N.J., Billitt, A.L., Gaultieri, R.J., and Friedman, H.S.: Malignant supratentorial glial-neuronal neoplasms: report of two cases and review of the literature. *Arch. Pathol. Lab. Med.* 121:485-492, 1997.
56. Wikstrand, C.J., McLendon, R.E., Friedman, A.H., and Bigner, D.D.: Cell surface localization and density of the tumor-associated variant of the epidermal growth factor receptor EGFRvIII. *Cancer Res.* 57:4130-4140, 1997.
57. Rasheed, B.K.A., Stenzel, T.T., McLendon, R.E., Parsons, R., Friedman, A.H., Friedman, H.S., Bigner, D.D., and Bigner, S.H.: PTEN gene mutations are seen in high-grade but not in low-grade gliomas. *Cancer Res.* 57:4187-4190, 1997.
58. Bigner, S.H., McLendon, R.E., Fuchs, H., McKeever, P.E., and Friedman, H.S.: Chromosomal characteristics of childhood brain tumors. *Cancer Genet. Cytogenet.* 97:125-134, 1997.
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19. McLendon, R.E., Batra, S.K., Friedman, H.S., Rasheed, B.K.A., Bigner, D.D., and Bigner, S.H.: C-myc in medulloblastoma biopsies and xenografts. Tenth International Conference on Brain Tumour Research and Therapy, Stalheim, Norway, September 7, 1993.
20. Klitzman, B., Schrader, N., McLendon, R.E., and Dewhirst, M.W.: Quantitative morphology of rat carcinoma with relevance to oxygenation. Meeting of The Microcirculatory Society, 1994.
21. McLendon, R.E.: Invited Lecturer. Mercer University School of Medicine, Macon, GA, April, 1994.

22. McLendon, R.E.: Osteoporosis and Degenerative Diseases of the Spine. Back Pain and Lumbar Spine Conference, Pine Mountain, GA, May 7, 1994.
23. McLendon, R.E.: Gliomas: Grading and Epidemiology. Neurology-Neurosurgery Grand Rounds, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, August 3, 1994.
24. McLendon, R.E.: Infections of the Central Nervous System. Department of Pathology, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, August 7, 1994.
25. McLendon, R., Bruner, J.M., Friedman, H.S., Brown, M.T., Bigner, D.D., Rasheed, B.K.A., and Bigner, S.H.: Asynchronous primary brain tumors. Eleventh International Conference on Brain Tumor Research and Therapy, Silverado-Napa, CA, October 31, 1995.
26. Coleman, R.E., Friedman, A.F., Friedman, H.S., Perry, J.R., McLendon, R.E., Bigner, S.H., Zalutsky, M.R., Schold, S.C., Jr., and Bigner, D.D.: Phase I studies of radiolabeled 131I 8136 anti-tenascin monoclonal antibody in patients with recurrent cystic gliomas or surgically created brain tumor resection cavities: preliminary results. Presentation: Annual Meeting of the American Association of Neuropathologists, 1996.
27. McLendon, R.E.: Invited Lecturer. Mercer University School of Medicine, Macon, GA, May, 1996.
28. McLendon, R.E.: Invited Lecturer. Mercer University School of Medicine, Macon, GA, March, 1997.
29. McLendon, R.E.: Dysembryoplastic Neuroepithelial Tumors. Tygerberg Hospital, University of Stellenbosch, Cape Town, Republic of South Africa, April 10, 1997.
30. McLendon, R.E.: Neuropathology Case Studies. Memorial Medical Center, Savannah, GA, August 19, 1997.
31. McLendon, R.E.: Diagnostic markers in medulloblastoma. 12th International Conference on Brain Tumour Research and Therapy, Keble College, Oxford University, Oxford, U.K., September 22, 1997.
32. McLendon, R.E.: Invited Lecture. Mercer University School of Medicine, Macon, GA., February, 1998.
33. McLendon, R.E.: Glioblastoma - Mechanisms of Therapeutic Resistance. Visiting Professor Seminar. Department of Pathology, Medical College of Georgia, Augusta, GA, June 22, 1998.
34. McLendon, R.E.: DNA Repair Enzymes and Response to Therapy of Gliomas. Pathology Seminar Series, Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA., March 3, 1999.
35. Cummings, T.J., Bentley, R.C., and McLendon, R.E.: Ultrastructure of meningiomas and solitary fibrous tumors of the central nervous system. The Society for Ultrastructural Pathology, Florence, Italy, July, 2000.

36. McLendon, R.E.: Advances in the Molecular Classification of Brain Tumors. Portland Society of Pathology, Portland, OR, March 6, 2001.
37. McLendon, R.E.: The Molecular Classification of Gliomas. The Blood Brain Barrier Society Annual Meeting, Gleneden Beach, OR, March 9, 2001.
38. McLendon, R.E.: Mixed Neuronal Glial Tumors. 20th Annual Meeting of the Japanese Society of Brain Tumors, Hiroshima, Japan, May 10, 2002.
39. McLendon, R.E.: Writing a Textbook. 20th Annual Meeting of the Japanese Society of Brain Tumors, Hiroshima, Japan, May 11, 2003.
40. McLendon, R.E.: Benign Brain Tumor Reporting. National Cancer Registrar's Association Annual Meeting, Pittsburgh, PA, May 16, 2003.
41. McLendon, R.E.: Benign Brain Tumors: A Neuropathologist's View. Oncology Registrar's Association of New Jersey, Atlantic City, NJ, October 3, 2003.
42. McLendon, R.E.: Towards a Molecular Grading System in Gliomas. International Academy of Pathology, Brisbane, Australia, October 11, 2004.
43. McLendon, R.E.: Neuronal Glial Tumors. International Academy of Pathology, Brisbane, Australia, October 12, 2004.
44. McLendon, R.E.: Pituicytoma. Interesting Case Conference of the Arthur Purdy Stout Society. International Academy of Pathology, Brisbane, Australia, October 13, 2004.
45. McLendon, R.E. Neuropathology Specialty Review Session. Hong Kong Academy of Pathology, Hong Kong, People's Republic of China. June 18, 2005
46. McLendon, R.E. Grand Rounds. 301 People's Liberation Army Hospital. Beijing, People's Republic of China. June 20, 2005
47. McLendon, R.E. Towards a Molecular Grading System of Gliomas. Western Australia Research Centre, Perth, Australia. June 27, 2005.
48. McLendon, R.E. Plenary Session: Neuronal Glial Tumors. Federation of South African Societies of Pathology. Pretoria, Republic of South Africa. July 5, 2005.
49. McLendon, R.E.: A Review of the Five Most Common Problems Encountered in a Consultative Surgical Neuropathology Practice. North Carolina Society of Pathologists Annual Meeting. Charlotte, NC. October 20, 2007
50. McLendon, R.E.: Robert S. Totten Lecture: Neuropathology of Gliomas and the Role of Pharmacogenomics. University of Pittsburgh November 14, 2007.
51. McLendon, R.E.: Neuropathology of Gliomas and the Role of Pharmacogenomics. Grand Rounds, University of Oklahoma Department of Pathology, Oklahoma City, OK . Sept 29, 2008

52. McLendon, R.E. : Stem cell research and therapeutic implications, International Academy of Pathology, Athens, Greece, November 15, 2008
53. McLendon, R.E.: Glioma Stem Cells: Tumor Progenitors or Perpetuators? German Society of Neuropathology, Düsseldorf, Germany, September 18, 2009
54. McLendon, R.E.: Glioma Stem Cells: An Organizational Approach. Frankfurt-Heidelberg Brain Tumor Consortium meeting. Sennheim, Germany, March 25, 2010.
55. McLendon, R.E.: An Overview of Changes in the Recent WHO Classification of Tumors of the Nervous System. Surgical Pathology Society. Tiantan Hospital, Beijing, People's Republic of China, May 22, 2010
56. McLendon, R.E.: The Glioma Stem Cell Controversy, A View from the Microscope. Chinese University of Hong Kong, Hong Kong, People's Republic of China, May 26, 2010.
57. McLendon, R.E.: The Glioma Stem Cell: Hierarchy in the GBM. New York University Department of Pathology Grand Rounds. New York, New York. April 23, 2012
58. McLendon, R.E.: Diagnostic and Prognostic Advances in Adult Glioma. Omniprex. New York Academy of Medicine. March 1, 2013
59. McLendon, R.E.: Adult Glioma Biomarker Testing - An Update. Brigham and Women's Hospital, Boston, MA. May 31, 2013
60. McLendon, R.E.: Biomarkers of Adult Gliomas. Grand Rounds. Medical College of Georgia, Augusta, GA. June 17, 2013
61. McLendon, R.E.: Immunohistochemical and Molecular Biomarkers of Childhood Medulloblastomas. 45th Congress of the International Society of Paediatric Oncology. Hong Kong. September 25, 2013
62. McLendon, R.E.: Medulloblastoma subgrouping. Advanced Course in Neuropathology II. International Academy of Pathology and Association of Directors of Pathology of China. Prince of Wales Hospital, Shatin, Hong Kong. September 27, 2013
63. McLendon, R.E.: Five most common consults. Advanced Course in Neuropathology II. International Academy of Pathology and Association of Directors of Pathology of China. Prince of Wales Hospital, Shatin, Hong Kong. September 27, 2013
64. McLendon, R.E.: Prognostic and Diagnostic Markers in Adult Gliomas. Advanced Course in Neuropathology II. International Academy of Pathology and Association of Directors of Pathology of China. Prince of Wales Hospital, Shatin, Hong Kong. September 27, 2013
65. McLendon, R. E.: Common Problems in Diagnostic Neuropathology. Virginia Society for Pathology. Jefferson Hotel. Richmond, VA. October 6, 2013
66. McLendon, R.E.: Seminar in Neuro-Oncology. Hong Kong Academy of Pathology. Chinese University of Hong Kong. Hong Kong. August 22, 2014.

67. McLendon, R.E.: Diagnostic Issues in Neuropathology. Singapore General Hospital, Singapore. Oct 3. 2014
68. McLendon, R.E.: Grand Rounds in Medical Oncology. Chulalongkorn Hospital, Bangkok, Thailand. October 6, 2014

Professional Awards and Special Recognitions:

Emory Undergraduate Honors Research Program, 1978-1979
Dean's Summer Research Fellowship, Medical College of Georgia, 1980
Myasthenia Gravis Foundation Henry R. Viet's Student Research Fellowship, 1980-81
The North Carolina Society of Pathologists' Wiley Forbus Research Award, 1987
Robert S. Totten Visiting Professor, University of Pittsburgh, 2007
American Association of Cancer Research: Team Science Award, 2014.

Organizations and Participations:

College of American Pathology, Fellow, 1989-present
American Association of Neuropathology, Active Member, 1987-present
United States-Canadian Academy of Pathology, 1987-present
American Association of Cancer Research, 1988-present
Medical Association of Georgia, 1987-1990; Second Medical District President, 1991
Tift County Medical Society, 1987-1990; Secretary, 1988; Vice President, 1989; President, 1990
American Cancer Society, 1989-1992; Tift County Medical Vice President, 1989-1991;
Georgia Division Board of Directors, 1990-1992
North Carolina Medical Association, 1997-present
Durham-Orange County Medical Society, 1997-present
Arthur Purdy Stout Society of Surgical Pathologists, 1998-2005
Society for Neuro-Oncology, 1995 – present
Association of Directors of Anatomic and Surgical Pathology, 2005-presnt

External Support (Past and Present) - Gifts, Grants, and Contracts

ACTIVE

Pediatric Brain Tumor Foundation (McLendon) 04/01/2009 – 03/31/2015
Pediatric Brain Tumor Foundation

Institute at Duke Medicine Biorepository Core 1The major goals of this project are the operation of a Biorepository and Pathology Core for brain tumor tissue in support of the Projects for the rest of the Pediatric Brain Tumor Foundation Award.

RSG-10-126-01CCE (Yan, H.) 07/01/2010 – 06/30/2014
American Cancer Society
Functions of mutant IDH1 and IDH2 and their roles in glioma development

The goals of this project are: 1. To determine the functional effects of IDH1/IDH2 mutations on glioma cell growth and survival. 2. To determine the biochemical characteristics of mutant IDH1 and IDH2 and the molecular mechanisms underlying the biology of IDH-mutated glioma. 3. To determine the biological basis for *IDH* mutations in progressive gliomas, and predictive value of *IDH* mutation status in GBMs.

R01-CA153050-06 07/01/2010 – 06/30/2015
(Ali-Osman, F.)
NIH/NCI
P53-dependent GSTP1 Gene Regulation and Glioma Drug Resistance

The goal is to investigate the novel p53-GSTP1 crosstalk for its role as a mediator of drug resistance in GBM.

V Foundation for Cancer Research (Yan, H.) 01/01/2011 – 10/31/2015
V Foundation for Cancer Research
Developing Novel Approaches to Target Gliomas

The goal is to develop novel therapeutic approaches based on the unique metabolic features of mutant IDH1 and IDH2 proteins.

PAST SUPPORT

American Cancer Society
Clinical Oncology
Development Award

National Institute of
Neurological and
Communicative Disorders
and Stroke, Clinical
Investigator Development
Award

R01-CA68119-04 (Bigner, S.H.) \$169,478 7/5/96 - 4/30/01
NIH - NCI
Molecular Markers of Prognosis in Medulloblastoma

DAMD17-98-C-8027 (Abou-Donia, M.B.) \$268,599 3/25/98 – 8/24/02
U.S. Army
Long-term effects of subchronic exposure to sarin, alone and with stress of other chemicals

R01-CA43722-14 (Bigner, S.H., P.I.) 01/01/99 – 12/31/03
NIH/NCI
Growth Control and Cytogenetics of Malignant Gliomas

U01CA81474-03 (Friedman, H.S., P.I.) 04/01/99 – 03/31/04
NIH/NCI
Pediatric Brain Tumor Consortium Grant

5P30-CA14236 (Colvin, M., P.I.) 01/01/99 – 12/31/03
NIH-NCI

Cancer Center Core Support Grant
 Director of the Tissue Distribution and Cytogenetics Shared Resource

U01-CA88128-02 (Riggins, G., P.I.) NIH/NCI A Molecular Classification of Brain Tumors		08/29/00 – 01/31/05
The W.M. Keck Center for Neuro-Oncology Genomics (Colvin, M., P.I.)		07/01/01 – 06/30/03
5 P50-NS-20023-24 (Bigner, D.D.) NIH/NINDS SRC on Primary and Metastatic Tumors of the CNS	\$216,107 (Project 4)	2/1/2004 - 1/31/2009
5 R37 CA11898-37 (MERIT Award) (Bigner, D.D.) NIH/NCI Brain Tumors: Immunological and Biological Studies	\$417,254	4/1/2003 - 3/31/2008
1 U01 CA81474 (Friedman) NIH Pediatric Brain Tumor Clinical Trials Consortium.	\$77,788	4/1/2004 – 3/31/2009
2 PO1 CA47741-11A2 (Chao, Nelson) NIH/NCI Novel Approaches for Stem Cell Transplantation	\$911,481 (Project 3, Co-Investigator)	7/1/2003 – 6/30/2008
5 P50 CA108786-04 (Bigner, D.D.) NIH/NCI SPOR in Brain Cancer	\$95,209 (Core 1 Leader)	9/1/2004 – 8/31/2009
5 P50 CA108786-04 (Bigner, D.D.) NIH/NCI SPOR in Brain Cancer	\$172,666 (Core 3 Co-PI)	9/1/2004 – 8/31/2009
5 P50 CA108786-04 (Bigner, D.D.) (Core 4 Co-Leader) NIH/NCI SPOR in Brain Cancer	\$203,062	9/1/2004 – 8/31/2009
Pediatric Brain Tumor Foundation (McLendon) Pediatric Brain Tumor Foundation Institute at Duke Project 5-Definition of Non-AGT/DNA Mismatch Repair Deficiency Mechanisms of Resistance to Temozolomide	\$90,000	4/1/2003 – 3/31/2009
1R01 NS054276-01A1 (Rich)		2/15/2006 – 1/31/2011

NIH

\$157,500 (Neuropathologist)

Molecular Mechanisms of SPARC Mediated Glioma Invasion

1 R01 CA116659-01A1 (Rich, Jeremy)

8/1/2006 – 7/31/2011

NIH/NCI

\$177,500 (Investigator)

TGFbeta-PTEN Interactions Glioma Biology & Therapy

1 R01 CA118822-01A1 (Yan, Hai)

7/1/2006 – 5/31/2011

NIH/NCI

\$142,000 (Co-Investigator)

The Role of OTX2 in Molecular Pathogenesis of Medulloblastoma

1R21-NS067975-01 (Sampson, J.)

09/30/09 - 08/31/11

NIH

Gene Targeted Therapy of Brain Tumor

Subcontract SAIC Frederick (Bigner)

04/01/08 – 9/30/10

NIH

TCGA Contract

The major goals of this project are to analyze existing Brain Tumor Tissue inventory and acquire samples of relevant tissues from other donors and provide samples as needed for TCGA project.

5 R01 CA118822-04 (Yan, Hai)

07/01/06 – 05/31/11

NIH/NCI (Co-Investigator)

The Role of OTX2 in Molecular Pathogenesis of Medulloblastoma

The major goals of this project are to investigate how medulloblastoma cell growth are controlled by a developmentally regulated gene, shown to be amplified or overexpressed in medulloblastomas.

5 P50 CA108786-05 (Bigner, D.D.)

09/01/04 – 08/31/10

NIH/NCI (Core 1 Leader)

SPORE in Brain Cancer

The major goals of this core are to establish a tissue bank organized around an integrated histologic and molecular diagnostic laboratory with all research and clinical information available from a constantly updated database.

5 P50 CA108786-05 (Bigner, D.D.)

09/01/04 – 08/31/10

NIH/NCI (Core 3 Co-PI)

SPORE in Brain Cancer

The major goals of this core are to design novel therapeutic strategies that either block key mediators of chemoresistance or that augment local control, in order to improve the survival of patients with malignant brain tumors while preserving an optimal quality of life.

5 P50 CA108786-05 (Bigner, D.D.)
NIH/NCI (Core 4 Co-Leader)
SPORE in Brain Cancer

09/01/04 – 08/31/10

The major goals of this core are to provide pathologic relevance into the statistical analysis of the clinical, translational, and basic scientific investigations of the SPORE.

5 R37 CA11898-41 (MERIT Award Extension)
(Bigner, D.D.)
NIH/NCI
Brain Tumors: Immunological and Biological Studies

04/14/2008 – 03/31/2013

The specific aims of this project are to develop humanized intact antibodies to the specific epitope of EGFRvIII and single fragment chain recombinant monoclonal antibody fragments, and to evaluate their use as therapeutic agents after labeling with ^{131}I and ^{211}At and genetic incorporation of *Pseudomonas* exotoxin.

1R21-NS067975-02 (Sampson, J.)
09/30/2009 – 08/31/2012

NIH/NINDS
Gene Targeted Therapy of Brain Tumor

The goal is to enhance the efficacy of targeted combinatorial therapy for patients with GBM.

W81XWH-10-1-0089 (Mitchell, D.)
DoD
04/01/2010 – 03/31/2015

Adoptive cellular therapy targeting recurrent pediatric brain cancers during hematopoietic recovery from high-dose chemotherapy. The goal is to determine if DC + xALT therapy targeting reMB/PNETs during recovery from myeloablative chemotherapy will be safe and will prolong the 12-month progression-free survival (PFS-12) (H_0 : $\square \leq 0.33$; H_1 : $\square > 0.55$) in children and young adults with reMB/PNETs.

5P50-NS-20023-29 (Bigner, D.D.)6/15/2009 - 1/31/2014

NIH/NINDS Project 3
SRC on Primary Tumors of the CNS

The major goals of this project are to design novel therapeutic strategies that either block key mediators of chemoresistance or that augment local control, in order to improve the survival of patients with malignant brain tumors while preserving an optimal quality of life.

5P50-NS-20023-29 (Bigner, D.D.)6/15/2009 - 1/31/2014

NIH/NINDS Core A
SRC on Primary Tumors of the CNS

The major goals of this core are to provide pathologic relevance into the statistical analysis of the clinical, translational, and basic scientific investigations of the grant.

5P50-NS-20023-29 (Bigner, D.D.) 6/15/2009

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1/31/2014

NIH/NINDS Core B
SRC on Primary Tumors of the CNS

The major goals of this core are to establish a biorepository organized around an integrated histologic, molecular, and flow cytometric diagnostic laboratory with all research and clinical information available from a constantly updated database.

1R01-NS067037-03 (Mitchell, Duane) 09/15/2009

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06/30/2014

NIH/NCI
Reversal of CMV-specific immune deficits in patients with glioblastoma

The goal is to explore methods methods to reverse cell-mediated deficits in patients with GBM using CMV RNA pulsed DC's co-transfected with RNAs encoding for cytokines that favorably modulate polyfunctional T cell responses and inhibit expansion of immunosuppressive Tregs.

Industry Sponsored Clinical Trials Aggregated Effort
 Duke University lists aggregated effort assigned to the following eligible industry-sponsored clinical trial projects. Each of these individual projects has a varying need of effort depending on the type of activity currently in progress: protocol development, start-up, patient recruitment, enrollment, follow-up, monitoring, data analysis, publication, and closeout. Faculty determine each project's need and adjust their effort between projects within the total aggregated effort assigned to the clinical projects. Effort is reviewed and confirmed by the department based on the activity of each project.

Boehringer Ingelheim Pharmaceuticals (McLendon, Roger) (Investigator)	08/21/09 – 07/31/11
Boehringer Ingelheim Pharmaceuticals FISH and Immunohistochemical Studies	

The major goal of this project is to conduct FISH and Immunohistochemical Studies

GSK Agreement (McLendon, Roger)	9/1/2006 – 12/31/2007	0.12 calendar
GSK	\$150,160 (Investigator)	
Comprehensive Glioma Panel for Evaluation of Second Messenger Inhibitors		
Novartis Agreement (McLendon, Roger)	7/1/2007 – 8/31/2009	0.12 calendar
Novartis	\$218,028 (Investigator)	Shared with WO
Glivec and HU Study (Work Order 2201)		2202
Novartis Agreement (McLendon, Roger)	5/1/2007 – 4/30/2009	Effort shared w/

Novartis Glivec and HU Study (Work Order 2202)	\$218,028 (Investigator)	WO 2201
Celldex Agreement (McLendon, Roger) Celldex Anti-EGFR Antibody Comparison	5/1/2007 – 4/30/2008 \$2,600 (Investigator)	0.12 calendar